

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
September
2009

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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Department of Water Resources
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The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during September 2009.

Statewide precipitation was about 80 percent of average for the water-year through September 30. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at http://cdec.water.ca.gov/snow_rain.html

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. No Snowpack or Statewide Runoff data is available in September. Cumulative Unimpaired runoff for the 2008-09 water year for the Sacramento River Region was 12.9 maf, 69 percent of average, compared to 10.3 maf at this time in 2008.

Statewide reservoir storage was 80 percent of average to date. Total storage in major SWP reservoirs at the end of September 2009 was about 2.06 maf compared to 1.87 maf at this time in 2008. On September 30, 2009, end-of-month storage at Lake Oroville was about 1.34 maf, as compared to 1.09 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 223 taf, as compared with 199 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 498 taf, compared with about 570 taf at this time in 2008.

SWP water deliveries to date through September 2009 were about 2.01 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 2.41 maf.

On May 31, by mutual agreement between the United States Bureau of Reclamation and the California Department of Water Resources in accordance with Article 6(h) of the COA, "Balanced" conditions were declared in the Delta and remained "Balanced" throughout the end of calendar year 2009. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports.

On September 2, units at Mojave Plant became available after being out of service since August 18. Los Angeles Department of Water and Power declared September 22 and 23 as "Restricted Maintenance" days, affecting Generation, Receiving Stations, Switching Stations and Converter Stations.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Aug 31	4998.21	19,191									
1	4998.14	19,132	-59	20	0	0	0	13	33	3	
2	4998.08	19,081	-51	20	0	0	0	13	33	7	
3	4998.02	19,031	-50	20	0	0	0	13	33	8	
4	4997.96	18,980	-51	20	0	0	0	13	33	7	
5	4997.89	18,921	-59	20	0	0	0	13	33	3	
6	4997.82	18,863	-58	20	0	0	0	13	33	4	
7	4997.77	18,821	-42	20	0	0	0	13	33	12	
8	4997.71	18,770	-51	20	0	0	0	13	33	7	
9	4997.65	18,720	-50	20	0	0	0	13	33	8	
10	4997.60	18,678	-42	20	0	0	0	13	33	12	
11	4997.54	18,628	-50	20	0	0	0	13	33	8	
12	4997.49	18,587	-41	20	0	0	0	13	33	12	
13	4997.43	18,537	-50	20	0	0	0	13	33	8	
14	4997.38	18,495	-42	20	0	0	0	13	33	12	
15	4997.37	18,487	-8	20	0	0	0	13	33	29	
16	4997.27	18,404	-83	20	0	0	0	13	33	-9	
17	4997.21	18,355	-49	20	0	0	0	13	33	8	
18	4997.15	18,305	-50	20	0	0	0	13	33	8	
19	4997.10	18,264	-41	20	0	0	0	12	32	11	
20	4997.05	18,223	-41	20	0	0	0	12	32	11	
21	4996.77	17,994	-229	20	0	0	0	12	32	-83	
* 22	est4996.63	17,880	-114	20	0	0	0	12	32	-25	
23	4996.49	17,766	-114	20	0	0	0	12	32	-25	
24	4996.42	17,709	-57	20	0	0	0	12	32	3	
25	4996.36	17,661	-48	20	0	0	0	12	32	8	
26	4996.31	17,621	-40	20	0	0	0	12	32	12	
27	4996.27	17,588	-33	20	0	0	0	12	32	15	
28	4996.19	17,524	-64	20	0	0	0	12	32	0	
29	4996.11	17,460	-64	20	0	0	0	12	32	0	
30	4996.05	17,412	-48	20	0	0	0	12	32	8	
Total cfs-days				---	600	0	0	0	378	978	
Total ac-ft				-1,779	1,190	0	0	0	750	1,940	
* Estimated daily values.											

Table 2. Frenchman Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Aug 31	5560.15	21,604									
1	5560.10	21,560	-44	2	6	0	0	11	19	-3	
2	5560.10	21,560	0	2	6	0	0	11	19	19	
3	5560.07	21,533	-27	2	6	0	0	11	19	5	
4	5560.02	21,489	-44	2	2	0	0	11	15	-7	
5	5559.98	21,454	-35	2	0	0	0	11	13	-5	
6	5559.95	21,428	-26	2	0	0	0	11	13	0	
7	5559.94	21,419	-9	2	0	0	0	11	13	8	
8	5559.92	21,401	-18	2	0	0	0	10	12	3	
9	5559.88	21,366	-35	2	0	0	0	10	12	-6	
10	5559.87	21,357	-9	2	0	0	0	10	12	7	
11	5559.82	21,313	-44	2	0	0	0	10	12	-10	
12	5559.81	21,305	-8	2	0	0	0	10	12	8	
13	5559.79	21,287	-18	2	0	0	0	10	12	3	
14	5559.79	21,287	0	2	0	0	0	10	12	12	
15	5559.78	21,278	-9	2	0	0	0	10	12	7	
16	5559.75	21,252	-26	2	3	0	0	10	15	2	
17	5559.74	21,243	-9	2	5	0	0	10	17	12	
18	5559.72	21,226	-17	2	5	0	0	10	17	8	
19	5559.63	21,147	-79	2	5	0	0	10	17	-23	
20	5559.59	21,103	-44	2	5	0	0	10	17	-5	
21	5559.55	21,077	-26	2	5	0	0	10	17	4	
22	5559.51	21,042	-35	2	5	0	0	10	17	-1	
23	5559.47	21,008	-34	2	3	0	0	10	15	-2	
24	5559.45	20,990	-18	1	2	0	0	10	13	4	
25	5559.43	20,973	-17	1	2	0	0	10	13	4	
26	5559.40	20,947	-26	1	2	0	0	10	13	0	
27	5559.38	20,930	-17	1	2	0	0	10	13	4	
28	5559.35	20,904	-26	1	2	0	0	10	13	0	
29	5559.29	20,852	-52	1	2	0	0	10	13	-13	
30	5559.28	20,843	-9	2	0	0	0	10	12	7	
Total cfs-days				---	54	68	0	0	307	429	
Total ac-ft				-761	107	135	0	0	609	851	
1/ Last Chance Creek Water District.											

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs							Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow			
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/						
Aug 31	5763.27	44,279										
1	5763.25	44,223	-56	8	3	1	0	23	34	5		
2	5763.21	44,011	-212	8	3	1	0	23	34	-73		
3	5763.19	44,055	44	8	3	1	0	23	34	56		
4	5763.17	44,000	-55	8	3	1	0	23	34	6		
5	5763.14	43,916	-84	8	3	1	0	23	34	-9		
6	5763.11	43,832	-84	8	3	1	0	23	34	-9		
7	5763.10	43,804	-28	8	3	1	0	23	34	20		
8	5763.07	43,721	-83	8	3	1	0	23	34	-8		
9	5763.04	43,637	-84	8	3	1	0	23	34	-9		
10	5763.02	43,582	-55	8	3	1	0	23	34	6		
11	5762.99	43,499	-83	8	3	1	0	23	34	-8		
12	5762.98	43,471	-28	8	3	1	0	23	34	20		
13	5762.97	43,443	-28	8	3	1	0	22	33	19		
14	5762.94	43,360	-83	8	3	1	0	22	33	-9		
15	5762.90	43,249	-111	8	3	1	0	22	33	-23		
16	5762.87	43,167	-82	8	3	1	0	22	33	-9		
17	5762.86	43,139	-28	8	3	1	0	22	33	19		
18	5762.83	43,055	-84	8	3	1	0	22	33	-10		
19	5762.81	43,001	-54	8	3	1	0	22	33	5		
20	5762.79	42,946	-55	8	3	1	0	22	33	5		
21	5762.77	42,891	-55	8	3	1	0	22	33	5		
22	5762.75	42,836	-55	8	3	1	0	22	33	5		
23	5762.71	42,726	-110	8	3	1	0	22	33	-23		
24	5762.70	42,699	-27	8	3	1	0	22	33	19		
25	5762.69	42,671	-28	8	3	1	0	22	33	19		
26	5762.68	42,644	-27	8	3	1	0	22	33	19		
27	5762.65	42,562	-82	8	3	1	0	22	33	-9		
28	5762.61	42,452	-110	8	3	1	0	22	33	-23		
29	5762.62	42,480	28	8	3	1	0	22	33	47		
30	5762.58	42,370	-110	8	3	1	0	22	33	-23		
Total cfs-days				---	225	75	21	0	672	993	30	
Total ac-ft				-1,909	446	149	42	0	1,332	1,969	60	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Includes 42 AF to Grizzly Ranch and 0 AF to Plumas County.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Aug 31	716.36	1,383,772										
	1	715.51	1,376,849	-6,923	9,736	30	0	3	194	0	9,963	0
	2	715.07	1,373,275	-3,574	9,036	30	0	3	192	0	9,261	0
	3	714.44	1,368,169	-5,106	8,316	30	0	0	197	0	8,543	0
	4	714.18	1,366,065	-2,104	5,460	30	0	0	218	0	5,708	0
	5	713.98	1,364,448	-1,617	4,123	30	0	0	207	0	4,360	0
	6	713.91	1,363,883	-565	4,817	30	0	0	131	0	4,978	0
	7	713.71	1,362,268	-1,615	4,069	30	0	0	164	0	4,263	0
	8	713.31	1,359,042	-3,226	7,441	30	0	0	175	0	7,646	0
	9	712.97	1,356,304	-2,738	6,291	30	0	0	179	0	6,500	0
	10	712.56	1,353,007	-3,297	6,636	30	0	0	200	0	6,866	0
	11	711.97	1,348,273	-4,734	6,226	30	0	0	195	0	6,451	0
	12	712.03	1,348,754	481	2,660	30	0	0	221	0	2,911	0
	13	712.41	1,351,802	3,048	221	30	0	0	140	0	391	0
	14	712.64	1,353,649	1,847	1,708	30	0	0	81	0	1,819	0
	15	712.63	1,353,569	-80	3,736	30	0	0	60	0	3,826	0
	16	712.33	1,351,160	-2,409	5,951	30	0	0	125	0	6,106	0
	17	712.04	1,348,834	-2,326	5,504	30	0	0	135	0	5,669	0
	18	711.38	1,343,550	-5,284	6,823	30	0	0	140	0	6,993	0
	19	711.84	1,347,231	3,681	1,268	30	0	0	167	0	1,465	0
	20	712.30	1,350,919	3,688	0	30	0	0	167	0	197	0
	21	711.69	1,346,030	-4,889	7,518	30	0	0	210	0	7,758	0
	22	711.64	1,345,630	-400	4,156	30	0	0	243	0	4,429	0
	23	711.39	1,343,630	-2,000	4,851	30	0	0	210	0	5,091	0
	24	710.94	1,340,035	-3,595	8,028	30	0	0	210	0	8,268	0
	25	710.50	1,336,526	-3,509	6,528	30	0	0	167	0	6,725	0
	26	710.43	1,335,969	-557	3,512	30	0	0	167	0	3,709	0
	27	710.51	1,336,606	637	4,045	30	0	0	183	0	4,258	0
	28	710.25	1,334,536	-2,070	4,007	30	0	0	172	0	4,209	0
	29	710.90	1,339,716	5,180	175	27	0	0	183	0	385	0
	30	710.55	1,336,924	-2,792	5,549	26	1	0	108	0	5,684	0
Total				-46,848	148,391	893	1	6	5,141	0	154,432	0
1/ Includes bypass flows												
2/ South Feather Water and Power Agency												
3/ Evaporation will be zero for days when there is precipitation or heavy overcast.												
4/ Does not include pumpback.												

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

September 2009

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Aug 31	24,030										
	1	-185	9,736	461	0	9,224	3	7	1,331	0	183
	2	67	9,036	461	0	8,508	3	7	1,333	0	421
	3	-37	8,316	461	0	7,787	3	7	1,333	0	316
	4	104	5,460	461	0	4,822	3	7	1,339	0	354
	5	-1	4,123	461	0	3,614	3	7	1,329	0	368
	6	143	4,817	462	0	4,196	3	7	1,327	0	397
	7	-59	4,069	461	0	3,648	3	7	1,327	0	396
	8	55	7,441	462	0	6,800	3	7	1,323	0	285
	9	101	6,291	462	0	5,672	3	7	1,321	0	351
	10	334	6,636	462	0	5,896	3	7	1,321	0	463
	11	-334	6,226	462	0	6,024	3	7	1,317	0	329
	12	-467	2,660	463	0	2,667	3	7	1,329	0	416
	13	-842	221	426	0	696	3	7	1,329	0	546
	14	327	1,708	7	0	91	3	7	1,339	0	52
	15	265	3,736	0	0	2,712	3	7	1,329	0	580
	16	249	5,951	0	0	4,960	3	7	1,321	0	589
	17	-94	5,504	0	0	4,632	3	7	1,321	0	365
	18	639	6,823	0	0	5,520	3	7	1,321	0	667
	19	-315	1,268	0	0	876	3	7	1,319	0	622
	20	-1,268	0	0	0	415	3	7	1,329	0	486
	21	1,409	7,518	0	0	5,407	3	7	1,323	0	631
	22	-1,401	4,156	0	0	4,775	3	7	1,341	0	569
	23	1,087	4,851	0	0	2,769	3	7	1,315	0	330
	24	397	8,028	0	0	6,736	3	8	1,321	0	437
	25	330	6,528	119	0	5,476	3	8	1,327	0	497
	26	-515	3,512	347	0	3,472	3	8	1,349	0	458
	27	236	4,045	456	0	3,280	3	8	1,345	0	371
	28	49	4,007	50	0	3,040	3	8	1,343	0	386
	29	-1,132	175	132	0	464	3	8	1,351	0	387
	30	981	5,549	255	0	4,104	4	8	1,337	0	630
Total		123	148,391	7,331	0	128,283	91	217	39,890	0	12,882

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Aug 31	133.70	45,541										
	1	134.36	48,150	2,609	9,224	2,122	3	198	762	2,757	0	-773
	2	134.86	50,168	2,018	8,508	2,023	3	258	748	2,757	0	-701
	3	135.23	51,685	1,517	7,787	1,904	2	258	718	2,757	0	-631
	4	134.96	50,576	-1,109	4,822	1,769	2	238	631	2,757	0	-534
	5	134.35	48,110	-2,466	3,614	1,700	2	234	536	2,757	0	-851
	6	133.91	46,365	-1,745	4,196	1,670	2	220	591	2,757	0	-701
	7	133.35	44,182	-2,183	3,648	1,611	2	218	579	2,757	0	-664
	8	133.70	45,541	1,359	6,800	1,565	1	214	460	2,539	0	-662
	9	133.94	46,484	943	5,672	1,456	0	182	329	2,142	0	-620
	10	134.31	47,950	1,466	5,896	1,406	0	147	272	1,736	0	-869
	11	134.88	50,249	2,299	6,024	1,327	0	131	210	1,476	0	-581
	12	134.69	49,477	-772	2,667	1,279	0	125	171	1,408	0	-456
	13	133.90	46,326	-3,151	696	1,242	0	103	171	1,406	0	-925
	14	133.18	43,529	-2,797	91	1,216	0	93	159	1,406	0	-14
	15	132.95	42,652	-877	2,712	1,182	0	91	119	1,406	0	-791
	16	133.31	44,028	1,376	4,960	1,146	0	58	129	1,400	0	-851
	17	133.66	45,384	1,356	4,632	1,127	0	30	113	1,404	0	-602
	18	134.20	47,512	2,128	5,520	1,083	0	26	101	1,406	0	-776
	19	133.54	44,917	-2,595	876	1,079	0	26	101	1,398	0	-867
	20	132.86	42,311	-2,606	415	1,079	0	26	99	1,398	0	-419
	21	133.39	44,336	2,025	5,407	1,079	0	8	97	1,402	0	-796
	22	133.75	45,736	1,400	4,775	1,063	0	0	99	1,400	0	-813
	23	133.66	45,384	-352	2,769	1,065	0	0	204	1,398	0	-454
	24	134.52	48,791	3,407	6,736	1,018	0	0	301	1,398	0	-612
	25	135.02	50,821	2,030	5,476	974	0	0	303	1,404	0	-765
	26	135.04	50,903	82	3,472	970	0	0	300	1,398	0	-722
	27	135.02	50,821	-82	3,280	952	0	0	300	1,400	0	-710
	28	134.99	50,698	-123	3,040	948	0	0	329	1,408	0	-478
	29	134.05	46,918	-3,780	464	992	0	0	375	2,122	0	-755
	30	133.79	45,893	-1,025	4,104	984	0	0	391	2,757	0	-997
Total				352	128,283	39,030	17	2,880	9,700	55,911	0	-20,393
												95,801

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

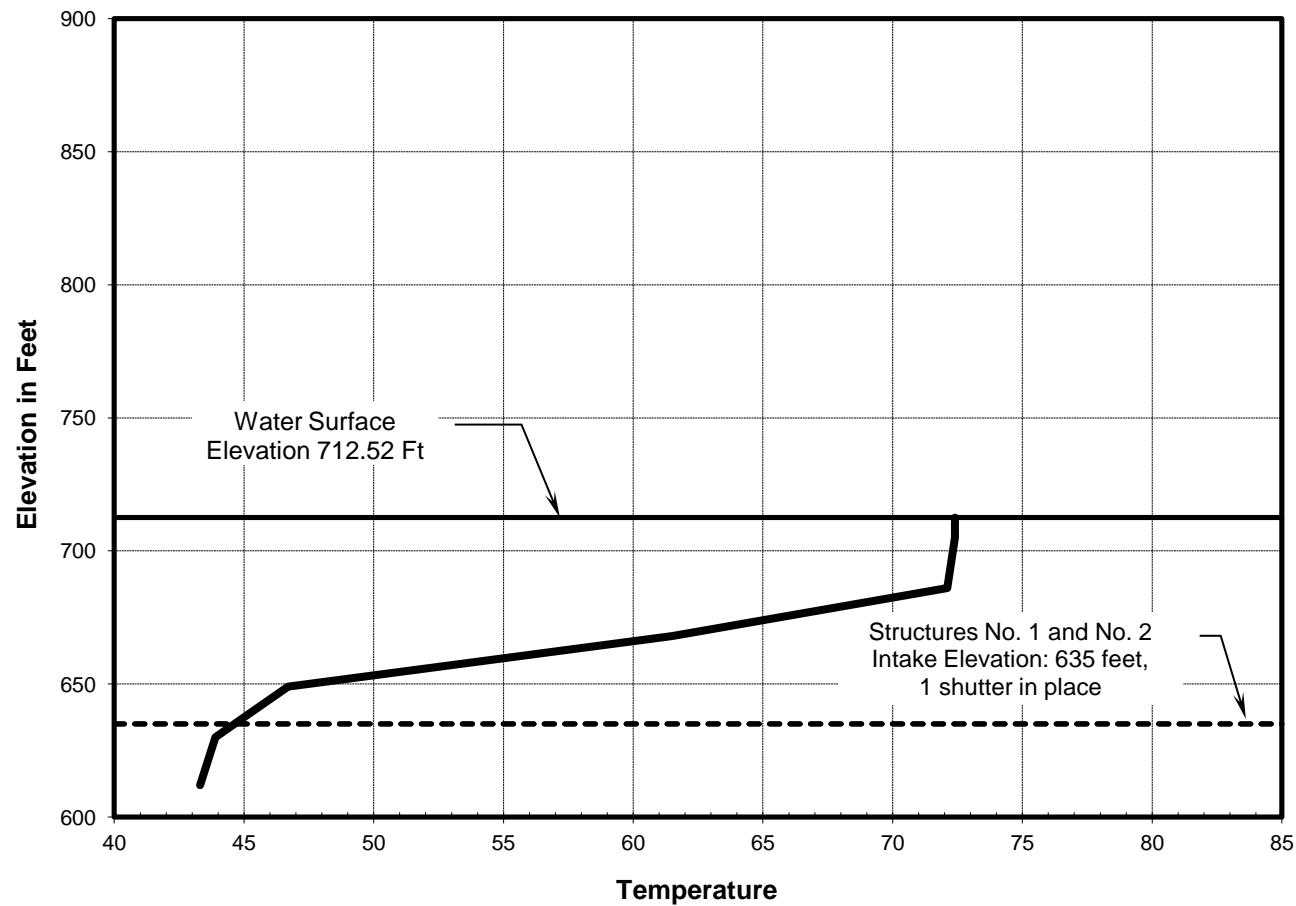
Water Temperature Data

(in degrees Fahrenheit)

September 2009

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	68	58
2	68	54
3	68	54
4	67	55
5	66	55
6	67	55
7	67	55
8	67	55
9	67	52
10	66	52
11	65	53
12	64	53
13	62	53
14	63	53
15	64	53
16	66	53
17	67	53
18	67	53
19	65	53
20	66	53
21	69	53
22	70	53
23	69	53
24	66	53
25	65	54
26	64	54
27	64	55
28	63	55
29	63	55
30	64	54

**Lake Oroville Temperature Profile
on September 17, 2009**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

September 2009

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	Permit	Article 56C	Settlement	Other	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,368	87	200	238	828		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	287						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	238						
				Solano County Water Agency Fairfield / Vacaville 42"	828						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
2	3A	Cordelia Pumping Plant & Cordelia Spillway	21.30		2,937	1/ 205 1,096	348	220	3/ 141		
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	553						
				Solano County Water Agency Benicia	1,096						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	320						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
3B	2	Napa Terminal Tank	27.58	City of Napa	965	279	545	3			
			27.60	Napa County Flood Control & WCD American Canyon 1	3						

1/ Includes 5 AF of Napa Co. FC&WCD TBLA through Solano Co.'s turnout (Reach 3A) for delivery to American Canyon.

2/ Solano Permit water sold to American Canyon, delivered to Cordelia Forebay and pumped to American Canyon.

3/ Includes 138 AF of Drought Water Bank and 3 AF of Dry Purchase 3.

Table 9. Delta Field Division Plant Data

(in acre-feet)

September 2009

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	163	113	7,928	6,938	573	0	0	0
2	156	111	6,573	5,583	552	0	0	0
3	166	103	6,705	5,715	542	0	0	0
4	181	109	6,893	5,903	569	0	0	0
5	164	105	6,906	5,916	545	0	0	0
6	157	109	8,011	7,021	553	0	0	0
7	142	92	7,380	6,390	560	0	0	0
8	138	89	6,865	5,875	547	0	0	0
9	153	90	6,810	5,820	560	0	0	0
10	189	98	6,780	5,790	536	0	0	0
11	190	114	5,725	4,735	567	0	0	0
12	119	107	5,713	4,723	563	0	0	0
13	119	103	4,920	3,930	533	0	0	0
14	143	130	4,884	3,894	209	0	0	0
15	122	109	4,476	4,476	212	0	0	0
16	92	83	5,836	5,836	215	0	0	0
17	139	113	5,347	5,347	208	0	0	0
18	149	107	3,163	3,163	423	0	0	0
19	169	113	5,043	5,043	451	0	0	0
20	152	99	5,493	4,503	471	0	0	0
21	119	65	3,866	2,876	505	0	0	0
22	95	54	3,811	2,821	459	0	0	25
23	117	70	2,207	1,217	492	0	0	0
24	108	54	2,211	1,221	524	0	0	0
25	179	93	2,028	1,038	525	0	0	0
26	156	98	1,940	950	513	0	0	0
27	147	99	1,120	130	482	0	0	0
28	139	102	2,199	1,209	510	0	0	0
29	141	97	2,036	1,046	526	0	0	0
30	164	108	2,416	1,426	498	0	0	0
Total	4,368	2,937	145,285	120,535	14,423	0	0	25

Table 10. Clifton Court Forebay

Daily Operation of Gates

September 2009

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	0:01	3:00	5:00	11:30	14:45	21:54					8,319
2	0:01	4:15	6:15	12:15	15:15	19:25					6,939
3	0:01	4:15	6:30	11:25	15:45	17:55	19:15	19:40			6,938
4	0:01	4:45	7:15	11:50	16:15	17:45					6,940
5	0:01	5:30	8:00	12:30	16:30	18:15					6,927
6	0:01	6:00	8:30	14:00	17:00	19:30					6,935
7	0:01	1:50	5:30	13:55	16:30	17:45					6,928
8	0:01	3:15	6:15	19:00							6,930
9	0:01	4:00	7:00	13:18							6,928
10	3:00	5:00	8:03	16:57							6,933
11	0:05	5:30	9:00	13:55							5,935
12	0:15	7:15	10:15	15:05							5,922
13	1:30	8:30	11:30	16:00							4,936
14	2:50	9:30	12:45	14:50							4,928
15	0:20	1:30	4:00	10:30	14:00	16:30					4,949
16	0:01	2:30	5:00	11:15	16:06	17:25					5,947
17	0:01	3:30	6:25	12:00	15:00	17:50					5,850
18	0:01	4:15	7:00	10:20	16:15	23:35					4,939
19	3:20	4:15	7:45	11:50	15:50	17:50					4,957
20	0:01	1:45	4:45	8:33							3,949
21	0:01	1:30	5:30	8:50							3,952
22	0:01	3:30	6:30	10:50							3,960
23	0:01	4:16	7:20	10:40							1,970
24	0:01	5:15	8:15	11:10							1,974
25	0:01	6:15	17:42	18:18							1,978
26	0:30	4:54	13:11	14:06							1,965
27	14:19	20:56									1,923
28	0:01	1:00	6:00	9:04	12:45	15:33					1,881
29	0:01	2:00	18:20	19:25							1,950
30	0:01	2:30									1,973
Total inflow for the month in AF:											146,555

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	General Conveyance	Drought Water Bank	Local Other	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	1,939					1,939	
1	1	Banks Pumping Plant	3.32		145,285		6				
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	14,423						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	6						
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
2A	4	Check No. 5	29.73								
	5	Check No. 6	34.24								
	6		35.22	Turlock Fruit Company Inflow	0						
		Check No. 7	39.91								
	7		42.46	Oak Flat Water District-A	58	58	173				
			42.9	Western Hills WD	173						
			43.81	Oak Flat Water District-B	81						
			44.64	Oak Flat Water District-C	45						
		Check No. 8	45.97								
	8		46.18	Oak Flat Water District-D	10						
				Oak Flat Totals:	194						
2B	9					194	0	0	0	0	
			Check No. 9	51.3							
	10	Check No. 10	56.86								
	11	Check No. 11	61.4								
	12		66.14	Veteran's Cemetery	21	15	6				
		Check No. 12	66.71		126,939						

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	Local	Article 56C	Other	Recreation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	14,423	3	12	1/ 1,289				
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	3							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
			7.21	Zone 7 Water Agency Altamont	12							
				Zone 7 Water Agency Patterson Storage Exchange Project Water	0							
	4	Check No. 3	9.49		1,289							
		4	Check No. 4	10.68								
		5	Check No. 5	12.29								
		6		13.55	Zone 7 Water Agency Wente #1	150	150	100	44			
				14.16	Zone 7 Water Agency Wente #2	100						
				14.31	Zone 7 Water Agency Ising	44						
			Check No. 6	14.65								
		7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	697	697					
			Check No. 7	16.38								
	5	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Water Agency Wente #3	0	90	3	67			
				16.63	Zone 7 Water Agency Wente #4	90						
				16.69	Zone 7 Water Agency Norman Nursery	3						
				16.70	Zone 7 Water Agency Concannon Project Water	67						
					Pumped into Lake Del Valle	0						
				18.63	Pumped into South Bay Aqueduct	0						
					Gravity into South Bay Aqueduct	25						
			Deliveries through Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	167	167	173	56	23		
					Storage Exchange Inflow Release	173						
					East Bay Regional Park Dist. Del Valle Recreation	56						
					Zone 7 Water Agency Wente #5	78						
				19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	0						
		6		19.21	Zone 7 - Kalthrof Detjens	1,822	239	1,812	2/ 10			
			La Costa Tunnel	22.50	ACWD - Vallecitos Project Water	0						
				25.97	City of San Francisco San Antonio	0						
			Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water Storage Exchange	1,647	694	953				
			Santa Clara Pipeline	35.86	S.C.V.W.D. Meter	500						
						8,073	3,303					

1/ Transfer from Byron Bethany Irrigation District.

2/ Includes 1 AF of Dry Purchase 2 and 9 AF of Dry Purchase 3.

3/ Includes 3.998 AF of Semitropic Recovery, 692 AF of Drought Water Bank, 1,311 AF of Dry Purchase 3, and 69 AF of Dry Purchase 4.

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

September 2009

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow		
Aug 31	698.79	37,005										
1	698.78	36,998	-7	3	0	0	0	1	9	10	0.00	
2	698.77	36,991	-7	11	0	0	0	1	17	18	0.00	
3	698.74	36,971	-20	-3	0	0	0	1	16	17	0.00	
4	698.72	36,958	-13	6	0	0	0	1	18	19	0.00	
5	698.68	36,931	-27	-14	0	0	0	1	12	13	0.00	
6	698.67	36,924	-7	4	0	0	0	1	10	11	0.00	
7	698.65	36,910	-14	-2	0	0	0	1	11	12	0.00	
8	698.62	36,890	-20	-5	0	0	0	1	14	15	0.00	
9	698.61	36,884	-6	9	0	0	0	1	14	15	0.00	
10	698.60	36,877	-7	8	0	0	0	1	14	15	0.00	
11	698.57	36,857	-20	0	0	0	0	1	19	20	0.00	
12	698.56	36,850	-7	8	0	0	0	1	14	15	0.00	
13	698.55	36,843	-7	7	0	0	0	1	13	14	0.03	
14	698.54	36,836	-7	2	0	0	0	1	8	9	0.29	
15	698.52	36,823	-13	-5	0	0	0	1	7	8	0.00	
16	698.57	36,857	34	47	0	0	0	1	12	13	0.00	
17	698.52	36,823	-34	-23	0	0	0	1	10	11	0.00	
18	698.48	36,796	-27	-14	0	0	0	1	12	13	0.00	
19	698.46	36,783	-13	0	0	0	0	1	12	13	0.00	
20	698.45	36,776	-7	5	0	0	0	1	11	12	0.00	
21	698.43	36,762	-14	1	0	0	0	1	14	15	0.00	
22	698.40	36,742	-20	22	0	0	25	1	16	42	0.00	
23	698.38	36,729	-13	8	0	0	0	1	20	21	0.00	
24	698.36	36,715	-14	-3	0	0	0	0	11	11	0.00	
25	698.35	36,709	-6	9	0	0	0	0	15	15	0.00	
26	698.34	36,702	-7	9	0	0	0	0	16	16	0.00	
27	698.31	36,682	-20	-3	0	0	0	0	17	17	0.00	
28	698.29	36,668	-14	1	0	0	0	0	15	15	0.00	
29	698.25	36,641	-27	-16	0	0	0	0	11	11	0.00	
30	698.22	36,621	-20	-15	0	0	0	0	5	5	0.00	
Total				-384	56	0	0	25	23	392	440	0.32

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations
September 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/	
Aug 31	223.56	52,544										
1	223.28	51,794	-750	0	2,269	0	3,702	0	2,426	3,900	9	-14
2	222.48	49,660	-2,134	0	1,924	0	3,014	0	1,590	4,280	7	-137
3	222.18	48,863	-797	0	1,775	0	2,881	0	1,580	3,172	7	-299
4	221.79	47,835	-1,028	0	1,676	0	3,182	0	1,574	3,548	1	-253
5	221.87	48,045	210	0	1,739	0	3,025	0	1,570	3,091	1	4
6	220.41	44,218	-3,827	0	1,994	0	3,730	0	3,122	4,334	1	-196
7	220.84	45,341	1,123	0	2,153	0	3,168	0	1,550	3,063	5	-137
8	221.16	46,180	839	0	1,994	0	3,168	0	1,550	2,922	9	-258
9	221.54	47,178	998	0	1,723	0	3,393	0	1,550	2,821	11	-231
10	222.10	48,650	1,472	0	1,594	0	3,040	0	517	3,339	10	-26
11	222.44	49,554	904	0	1,658	0	2,410	0	0	3,378	11	-223
12	221.46	46,968	-2,586	0	1,737	0	2,582	0	1,553	3,932	11	-127
13	220.39	44,166	-2,802	0	1,834	0	1,891	0	1,527	3,718	11	118
14	221.66	47,493	3,327	0	2,106	0	2,619	0	0	2,723	1	-324
15	222.46	49,607	2,114	0	2,226	0	1,931	0	0	2,844	1	-246
16	223.43	52,196	2,589	0	1,982	0	2,645	0	0	2,850	3	-469
17	223.15	51,447	-749	0	1,787	0	2,499	0	1,565	3,123	1	25
18	222.25	49,049	-2,398	0	1,913	0	1,477	0	1,550	2,862	3	-184
19	222.06	48,544	-505	0	1,962	0	2,139	0	1,532	2,641	1	-182
20	222.63	50,060	1,516	0	2,088	0	2,617	0	1,543	2,212	9	-177
21	222.22	48,969	-1,091	0	1,887	0	1,565	0	1,547	2,391	9	-55
22	222.01	48,411	-558	0	1,561	0	1,803	0	1,523	2,166	7	51
23	220.43	44,270	-4,141	0	1,369	0	825	0	1,510	2,643	7	-122
24	220.24	43,775	-495	0	1,521	1,118	884	0	0	3,509	6	-258
25	220.81	45,263	1,488	0	1,456	2,597	363	0	0	3,000	5	-661
26	221.96	48,282	3,019	0	1,490	2,582	762	0	0	3,574	6	268
27	222.00	48,385	103	0	1,591	1,956	297	0	0	3,559	6	-227
28	222.44	49,554	1,169	0	1,631	1,095	825	0	0	2,617	8	-337
29	222.61	50,006	452	0	1,615	1,094	578	0	0	2,907	8	-144
30	222.88	50,726	720	0	1,643	1,272	983	0	0	3,456	13	-66
Total			-1,818	0	53,898	11,714	63,998	0	30,879	94,575	188	-4,887
Mean cfs			---	0	1,797	390	2,133	0	1,029	3,153	6	-163
Acre-feet			-1,818	0	106,906	23,235	126,939	0	61,246	187,594	372	-9,686

1/ Pump-in located at Mile 79.67R.

2/ Includes 104 AF delivered to DFG at O'Neill Forebay, 0 AF to Parks & Rec., and 268 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

September 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Aug 31	384.00	401,559							
1	384.75	406,981	5,422	2,426	0	194	0	502	
2	385.08	409,375	2,394	1,590	0	196	0	-187	
3	385.41	411,775	2,400	1,580	0	180	0	-190	
4	385.70	413,887	2,112	1,574	0	190	0	-319	
5	386.06	416,516	2,629	1,570	0	180	0	-65	
6	386.76	421,643	5,127	3,122	0	165	0	-372	
7	387.09	424,069	2,426	1,550	0	170	0	-157	
8	387.23	425,099	1,030	1,550	0	178	0	-853	
9	387.54	427,384	2,285	1,550	0	208	0	-190	
10	387.64	428,122	738	517	0	182	0	37	
11	387.59	427,753	-369	0	0	190	0	4	
12	387.87	429,822	2,069	1,553	0	176	0	-334	
13	388.15	431,894	2,072	1,527	0	160	0	-322	
14	388.14	431,820	-74	0	0	226	0	189	
15	388.05	431,153	-667	0	0	250	0	-86	
16	387.95	430,413	-740	0	0	200	0	-173	
17	388.17	432,042	1,629	1,565	0	267	0	-477	
18	388.48	434,340	2,298	1,550	0	206	0	-185	
19	388.80	436,718	2,378	1,532	0	187	0	-146	
20	389.10	438,951	2,233	1,543	0	161	0	-256	
21	389.42	441,338	2,387	1,547	0	170	0	-174	
22	389.73	443,655	2,317	1,523	0	157	0	-198	
23	390.13	446,650	2,995	1,510	0	155	0	155	
24	389.86	444,627	-2,023	0	1,118	146	0	244	
25	389.15	439,324	-5,303	0	2,597	140	0	63	
26	388.42	433,895	-5,429	0	2,582	146	0	-9	
27	387.80	429,304	-4,591	0	1,956	145	0	-214	
28	387.49	427,015	-2,289	0	1,095	148	0	89	
29	387.12	424,289	-2,726	0	1,094	128	0	-152	
30	386.70	421,203	-3,086	0	1,272	207	0	-77	
Total				19,644	30,879	11,714	5,408	0	-3,853
Mean cfs				---	1,029	390	180	0	-128
Acre-feet				19,644	61,246	23,235	10,724	0	-7,643

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 9,783 AF, Casa De Fruta 0 AF, and San Benito 941 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

September 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,736	7,736	0	0	4,812	1,754	385
2	8,490	8,490	0	0	3,154	181	389
3	6,292	6,292	0	0	3,134	176	358
4	7,038	7,038	0	0	3,123	173	377
5	6,131	6,131	0	0	3,114	169	358
6	8,597	8,597	0	0	6,193	213	328
7	6,076	6,076	0	0	3,074	154	337
8	5,796	5,796	0	0	3,074	155	353
9	5,595	5,595	0	0	3,074	158	413
10	6,622	6,622	0	0	1,025	49	361
11	6,701	6,701	0	0	0	0	376
12	7,800	7,800	0	0	3,081	140	350
13	7,375	7,375	0	0	3,028	139	317
14	5,402	5,402	0	0	0	0	448
15	5,641	5,641	0	0	0	0	495
16	5,652	5,652	0	0	0	0	396
17	6,194	6,194	0	0	3,104	136	529
18	5,677	5,677	0	0	3,074	134	408
19	5,239	5,239	0	0	3,039	54	370
20	4,388	4,388	0	0	3,060	140	320
21	4,742	4,742	0	0	3,068	160	337
22	4,296	4,296	0	0	3,020	123	311
23	5,242	5,242	0	0	2,995	114	307
24	6,960	6,960	2,217	2,217	0	0	289
25	5,951	4,942	5,152	5,152	0	0	277
26	7,090	6,090	5,122	5,122	0	0	290
27	7,060	6,001	3,879	3,879	0	0	288
28	5,191	4,170	2,172	2,172	0	0	294
29	5,766	4,757	2,169	2,169	0	0	253
30	6,854	5,817	2,524	2,524	0	0	410
Total	187,594	181,459	23,235	23,235	61,246	4,322	10,724

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
September 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	322.17	18,024					
1	322.15	18,016	-8	0	0	0	-8
2	322.14	18,011	-5	0	0	0	-5
3	322.11	17,998	-13	0	0	0	-13
4	322.07	17,981	-17	0	0	0	-17
5	322.03	17,963	-18	0	0	0	-18
6	322.00	17,950	-13	0	0	0	-13
7	321.99	17,946	-4	0	0	0	-4
8	321.97	17,937	-9	0	0	0	-9
9	321.95	17,928	-9	0	0	0	-9
10	321.93	17,920	-8	0	0	0	-8
11	321.92	17,915	-5	0	0	0	-5
12	321.89	17,902	-13	0	0	0	-13
13	321.86	17,889	-13	0	0	0	-13
14	321.83	17,876	-13	0	0	0	-13
15	321.82	17,872	-4	0	0	0	-4
16	321.80	17,863	-9	0	0	0	-9
17	321.80	17,863	0	0	0	0	0
18	321.78	17,854	-9	0	0	0	-9
19	321.75	17,841	-13	0	0	0	-13
20	321.74	17,837	-4	0	0	0	-4
21	321.72	17,828	-9	0	0	0	-9
22	321.71	17,824	-4	0	0	0	-4
23	321.70	17,820	-4	0	0	0	-4
24	321.67	17,807	-13	0	0	0	-13
25	321.67	17,807	0	0	0	0	0
26	321.67	17,807	0	0	0	0	0
27	321.62	17,785	-22	0	0	0	-22
28	321.59	17,772	-13	0	0	0	-13
29	321.52	17,742	-30	0	0	0	-30
30	321.49	17,729	-13	0	0	0	-13
Total			-295	0	0	0	-295
Mean cfs			---	0	0	0	---
Acre-feet			-295	0	0	0	-295

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

September 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Aug 31	599.00	634					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	599.00	634	0	0	0	0	0
5	Not Observed						
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	599.00	634	0	0	0	0	0
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	599.00	634	0	0	0	0	0
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	598.60	616	-18	0	0	0	-18
24	Unreadable						
25	Unreadable						
26	Unreadable						
27	Unreadable						
28	Unreadable						
29	Unreadable						
30	598.60	616	0	0	0	0	0
Total			-18	0	0	0	-18
Mean cfs			---	0	0	0	---
Acre-feet			-18	0	0	0	-18

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		126,939						
3A		San Luis Reservoir		Department of Parks and Recreation	0	9,783	9,783	0	0		
				San Felipe Division Santa Clara Water District	9,783						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	941		941	0	0		
				Reach 3A Subtotal:	10,724						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	0	10,724	0	0	0		
				Cattle Program	0						
				Department of Fish & Game	104						
		Thru	70.91	San Luis Water District	268	268	268	57	47		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	372						
		Dos Amigos Pumping Plant	86.73		187,594						
4	14		89.03	San Luis Water District	4,081	4,081	4,081	0	0		
			Thru 94.06								
			89.66	Pacheco Water District	216		216	0	0		
			Thru 89.67								
			89.68	Panoche Water District	56		56	0	0		
			89.70	City of Dos Palos	145						
			Check No. 14	95.06							
		15	98.15	San Luis Water District	305	305	305	0	0		
			Thru 104.20								
			96.15	Panoche Water District	981		981	0	0		
			Thru 102.64	(Floodwater Inflow)	0						
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	2,781	2,781	2,781	0	0		
			Thru 108.64								
			Check No.15	108.50							
				Reach 4 Subtotal:	8,565		8,565	0	0		
				San Felipe Division Total:	10,724						
				Pacheco Water District Total:	216	216	0	0	0		
				Broadview Water District Total:	0						
				City of Dos Palos Total:	145		145	0	0		
				SLWD Reach 4 Subtotal:	4,386						
				Panoche Water District Total:	1,037		1,037	0	0		
				SLWD Total:	4,654						
				Westlands WD Reach 4 Subtotal:	2,781		2,781	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
5	16		110.52	(Reverse flow, Kings River)	0	5,533	5,533						
				Westlands Water District	5,533								
				Thru Dept. of Fish and Game @ Lat. 4L	0								
				122.05 Dept. of Fish and Game @ Lat. 6L	0								
				Dept. of Fish and Game @ Lat. 7L	0								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	1,947	1,947							
				Thru									
				132.74									
	Check No. 17		132.95										
	18		133.81	Westlands Water District	3,880	3,880							
				Thru									
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	4,338	4,338							
			143.16	City of Coalinga	588	588							
	Check No. 18		143.23										
				Reach 5 Subtotal:	16,286	16,286	0	0	0				
6	19		145.26	GWF Energy	4	1	1 / 4						
				City of Huron	1								
				SWP Construction @ Lat. 24R	0								
				Kings County to Lemoore NAS Through WWD	329								
				Kings County through WWD 30L	0								
				Westlands Water District	1,934								
			Check No. 19	155.64		1,934	2/ 329						
					Reach 6 Subtotal:								
					2,268								
	20		156.34	City of Huron	108	108							
			156.40	SWP Construction @ Lat. 24R	0								
			Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0								
			163.69	Westlands Water District	1,069								
			Check No. 20	164.69									
	21		164.79	City of Avenal	228	228							
			167.04	Westlands Water District	1,047								
			Thru										
			171.67										
			Check No. 21	172.40	153,126								
				Reach 7 Total:	2,452	2,452	0	0	0				
				SWP Construction Total:	0	0	0	0	0				
				Westlands WD Total:	22,529	22,529	0	0	0				
				City of Coalinga Total:	588	588	0	0	0				
				City of Huron Total:	109	109	0	0	0				
				Kings County to Lemoore NAS Through WWD	329	0	329	0	0				
				City of Avenal Total:	228	228	0	0	0				
				Total San Luis Field Division Deliveries:	40,667	40,230	333	57	47				

1/ GWF Energy (Henrietta Peaker Project) from County of Kings to Westlands Water District.

2/ From County of Kings to Lemoore NAS through WWD 29L and 30L.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
September 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Aug 31	28,779								
1	28,212	-567	0	3,900	69	19	618	3,261	-219
2	29,083	871	0	4,280	70	19	618	2,923	-211
3	28,208	-875	0	3,172	82	19	479	2,843	-190
4	28,316	108	0	3,548	84	19	479	2,690	-222
5	27,785	-531	0	3,091	84	19	479	2,660	-117
6	28,207	422	0	4,334	84	19	479	3,676	137
7	28,437	230	0	3,063	84	19	479	2,312	-53
8	28,600	163	0	2,922	84	19	479	2,394	136
9	27,881	-719	0	2,821	84	19	479	2,592	-10
10	28,049	168	0	3,339	84	19	348	2,516	-288
11	28,229	180	0	3,378	84	19	348	2,586	-250
12	27,833	-396	0	3,932	84	19	348	3,546	-135
13	28,254	421	0	3,718	84	19	348	3,046	-9
14	28,090	-164	0	2,723	84	19	348	2,357	2
15	28,257	167	0	2,844	78	19	348	2,320	5
16	28,164	-93	0	2,850	78	19	328	2,438	-34
17	28,119	-45	0	3,123	78	19	328	2,617	-104
18	28,549	430	0	2,862	78	18	328	2,130	-91
19	28,724	175	0	2,641	78	18	328	1,994	-134
20	27,946	-778	0	2,212	78	18	328	2,283	103
21	27,861	-85	0	2,391	78	18	341	1,946	-51
22	27,745	-116	0	2,166	78	18	342	1,766	-21
23	27,732	-13	0	2,643	78	18	374	1,973	-206
24	27,684	-48	0	3,509	78	18	374	2,883	-180
25	27,856	172	0	3,000	78	13	374	2,286	-162
26	27,889	33	0	3,574	78	13	374	2,964	-128
27	28,746	857	0	3,559	78	12	374	2,579	-84
28	28,333	-413	0	2,617	78	12	374	2,312	-49
29	27,806	-527	0	2,907	78	12	374	2,618	-91
30	27,952	146	0	3,456	78	12	374	2,690	-229
Total		-827	0	94,575	2,393	523	11,992	77,200	-2,885
Mean cfs		---	0	3,153	80	17	400	2,573	-96
Acre-feet		-827	0	187,594	4,747	1,037	23,787	153,126	-5,724

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 216 AF to Pacheco W.D., 145 AF to the City of Dos Palos and 4,386 AF to San Luis Water District.

3/ Includes 108 AF to the City of Huron, 228 AF to the City of Avenal, 588 AF to the City of Coalinga, 1 AF to City of Huron P&R @ 22R, 329 AF to Lemoore N.A.S. @ 29L, 4 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 3L, 0 AF to DFG @ 4L, 0 AF to Pilibos Wldlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DFG @ 7L, 0 AF Non-Project Water, 18,191 AF to Westlands Water District and 4,338 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

September 2009

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	299	294	36	57	35	4,542	4,294	3,955	3,900
2	447	428	76	69	77	4,073	4,162	3,948	3,921
3	558	500	64	56	64	3,576	4,322	3,989	3,876
4	414	381	91	85	89	3,926	3,659	3,388	3,395
5	259	471	70	64	71	3,894	3,926	3,728	3,634
6	426	461	72	66	75	5,546	6,056	5,935	5,898
7	377	406	66	61	68	4,198	4,230	4,027	3,983
8	325	333	75	55	69	3,763	3,691	3,534	3,498
9	437	436	94	84	91	3,884	3,837	3,664	3,637
10	355	348	63	56	63	3,805	3,718	3,380	3,287
11	388	372	90	82	90	3,935	4,202	3,954	3,967
12	426	389	77	70	78	5,390	5,499	5,255	5,648
13	341	292	75	69	78	5,369	5,757	5,537	5,565
14	193	157	29	24	31	4,014	3,990	3,794	3,956
15	288	275	81	77	79	3,684	3,429	3,404	3,352
16	361	340	49	45	51	4,209	4,007	3,821	3,805
17	370	355	76	67	75	3,752	3,934	3,670	3,618
18	330	363	72	64	71	3,159	3,601	2,993	3,005
19	505	513	89	79	88	3,154	3,258	3,125	3,048
20	439	440	62	57	64	3,602	3,775	3,638	3,607
21	293	272	32	28	34	3,053	3,092	2,964	2,946
22	344	330	69	64	68	2,771	2,786	2,620	2,580
23	326	330	65	59	76	2,623	2,534	2,399	2,343
24	350	310	79	71	77	4,762	4,825	4,390	4,379
25	323	303	85	77	85	3,903	3,970	3,737	3,594
26	312	328	75	68	76	4,986	4,963	4,784	4,773
27	383	406	96	86	97	4,364	4,695	4,477	4,493
28	251	254	60	55	60	4,025	4,347	4,216	4,185
29	307	269	78	71	79	4,440	4,379	4,155	4,093
30	370	350	85	78	86	4,639	4,784	4,564	4,633
Total	10,795	10,705	2,131	1,944	2,145	121,039	123,723	117,044	116,619

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	USBR	Recovery	Article 56C	Other			
	No.	Structure	Mile										
7	21	Check No. 21	172.40		153,126								
8C	22			Empire West Side ID TL - A	0	110	20	279	101	1/ 10			
				172.66 County of Kings TL - A	0								
				Tulare Lake Basin WSD TL-A	120								
				175.18 Dudley Ridge WD - 1	20								
				177.54 Dudley Ridge WD - 1B	279								
				180.64 Tulare Lake Basin WSD - C	0								
				180.65 Dudley Ridge WD - 1A	101								
				182.99 Dudley Ridge WD - 2	1,325								
				183.00 Tulare Lake Basin WSD TL - B	0								
				County of Kings TL-B	0								
31A				184.00 Dudley Ridge WD - Paramount	0	1,767	0	0	0	2/ 52			
				184.63 Coastal Branch	10,795								
8D				184.78 Dudley Ridge WD - 3	1,819	3,492	0	0	0	52			
				Dudley Ridge Reach 8D Total:	3,544								
				Tulare Lake Basin WSD Total:	120								
	Check No. 22		184.82										
9	23			189.69 Kern County Water Agency Lost Hills Water Dist. - 1	5,150		5,150	880	192	3/ 341			
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	880								
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	533								
				196.40 Kern County Water Agency Berrenda Mesa - 2	224								
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	1,115								
				KCWA Reach 9 Subtotal:	7,902								
				Check No. 23	197.05								
10A	24			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	837		372	602	4/ 465				
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	602								
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0								
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	3								
				Check No. 24	207.94								
10A	25			209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	1,723		3,600	835	5/ 888				
				209.78 Kern National Wildlife Refuge USBR BV-1B	3,600								
				Kern County Water Agency Buena Vista WSD 1B	0								
				209.80 KCWA Semitropic WSD	0								
				KCWA Semitropic WSD Penstocks	0								
				USBR Total:	3,600								
				KCWA Reach 10A Subtotal:	3,165								

1/ Yuba Purchase Water C3.

2/ Includes 23 AF of YubaPurchase Water C2 and 29 AF of Yuba Purchase Water C3.

3/ Pool B.

4/ Drought Water Bank.

5/ Includes 388 AF of Yuba Purchase Water C2 and 500 AF of Yuba Purchase Water C3.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Recovery	Article 56C	Other		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	251				251			
			Kern County Water Agency Belridge - 3	251								
			Kern County Water Agency Belridge - 4	0								
			Kern County Water Agency Belridge - 5A-C	7,584								
			Kern County Water Agency Belridge - 5D	121								
		Check No. 25	217.79									
			KCWA Reach 11B Subtotal:	7,956		0	0	0	7,956	0		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	522				522			
			Kern County Water Agency West Kern - 3	522								
		Check No. 26	224.92									
12E	27	230.37	Kern County Water Agency Buena Vista - 6	0								
			Check No. 27	231.73								
		235.75	Kern County Water Agency Buena Vista - 2	0								
			Kern County WA CVC	0								
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
			Check No. 28	238.11								
			1/ Arvin Edison Total:	0		0	0	0	0	0		
			Reach 12E Subtotal:	0		0	0	0	0	0		
13B	29	238.19	Kern Water Bank Inflow	0					203			
			Kern Water Bank Outflow	0								
		241.02	Kern River Intertie (inflow)	0								
		242.85	KCWA Buena Vista WSD - 7	0								
			KCWA Buena Vista WSD - 5	203								
		243.09	Kern County Water Agency Buena Vista - 3	0								
		Check No. 29	244.54									
	30	249.85	Kern County Water Agency Buena Vista - 4	0					203			
		Buena Vista Pumping Plant	250.99	121,039								
			KCWA Reach 13B Subtotal:	203								
14A	31	254.47	Kern County Water Agency West Kern - 2	0					284			
		256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	284								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Structure			Table A	USBR	Recovery	Article 56C	Other	
	No.	Structure	Mile								
14A	31	Check No. 31	256.14								
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	674				674		
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,463				1,463		
		Check No. 32	261.72								
				KCWA Reach 14A Subtotal:	2,421	0	0	0	2,421	0	
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,346				3,346		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	723				1/ 723		
		Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,475				1/ 2,475		
			271.27								
				Reach 14B Total:	6,544	0	0	3,198	3,346	0	
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,994				1/ 1,994		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	852				2/ 852		
			277.30	Kern County Water Agency Arvin-Edison WSD	0						
				Reach 14C Total:	2,846	0	0	2,846	0	0	
		Teerink Pumping Plant	278.13		123,723						
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	407				3/ 407		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	1,688				1,688		
				Reach 15A Total:	2,095	0	0	2,095	0	0	
		Chrisman Pumping Plant	280.36		117,044						
			282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0						
16A	37	Check No. 37	283.95								
			285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	37				1/ 37		
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	66				1/ 66		
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0						
		Check No. 38	287.09								
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	78				1/ 78		
			290.21								
		39	291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,180				1/ 1,180		
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	122				1/ 122		
				Kern County Water Agency Tehachapi Cummings CWD	908				1/ 908		
				KCWA Reach 16A Subtotal:	2,391	0	0	2,391	0	0	
17E	Edmonston Pumping Plant	293.45			116,619						

1/ Recovery of pump-in water that was stored in CA Aqueduct in exchange for storage at San Luis Reservoir.

2/ Includes 36 AF of pump recovery and 816 AF of recovery of pump-in water that was stored in CA Aqueduct in exchange for storage at San Luis Reservoir.

3/ Includes 57 AF of pump recovery and 350 AF of recovery of pump-in water that was stored in CA Aqueduct in exchange for storage at San Luis Reservoir.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Recovery	Article 56C	Other		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		10,795		1/ 8,756					
		Las Perillas Pumping Plant	1.16		10,795							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		10,705							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
			13.30	Kern County Water Agency Berrenda Mesa - 3	0							
	C-6		14.83	Kern County Water Agency Berrenda Mesa - 1	8,756							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,131							
				KCWA Reach 31A Subtotal:	8,756	0	0	8,756	0	0		
				KCWA Total:	44,801	0	0	19,286	23,821	1,694		
33A	C-7	Bluestone Pumping Plant	19.05		1,944	1,114	337			2/ 699		
	C-8	Polonio Pass Pumping Plant	26.54		2,145							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,813							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	337							
		Energy Dissipater	78.12									
	Lopez T.O.		85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	2,150	1,451	0	0	0	699		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
	So. Cal. Water T.O.	109.20		SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
	Tank Site 5	115.42										

1/ Recovery of pump-in water that was stored in CA Aqueduct in exchange for storage at San Luis Reservoir.

2/ Transfer of San Luis Obispo's Table A to Santa Barbara.

Table 24. Southern Field Division Plant Data

September 2009

(in acre-feet)

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Bypass Through Plant	Tehachapi Afterbay Bypass	Generation	Leakage	Bypass Flume						
1	1,212	1,535	0	0	1,553	580	2,690	0	165	2,516	0	0	2,704	2,375	37	22	0
2	1,164	1,539	0	0	2,017	771	2,438	0	0	2,150	1,052	0	1,418	2,118	57	40	6
3	1,796	1,539	0	0	2,441	0	2,438	0	0	2,079	1,641	0	0	2,200	74	59	13
4	898	1,541	0	0	2,458	0	2,081	0	198	1,686	1,855	0	0	2,064	82	66	27
5	1,248	1,541	0	0	484	0	1,970	0	0	2,228	1,928	0	0	1,941	70	55	26
6	2,554	1,541	0	0	68	0	2,978	0	399	2,983	3,003	0	0	2,059	37	24	0
7	1,481	1,540	0	0	387	0	2,344	0	231	2,036	1,943	0	0	1,967	46	30	14
8	1,325	1,538	0	0	2,084	0	2,069	0	0	1,943	1,922	0	0	2,251	71	56	14
9	1,366	1,540	0	0	2,138	0	2,316	0	0	2,081	1,973	0	0	2,079	86	79	16
10	1,176	1,544	0	0	2,749	0	2,055	0	0	1,823	1,742	0	0	2,025	75	73	28
11	1,380	1,545	0	0	2,398	0	2,401	0	0	1,839	741	0	0	1,755	75	74	24
12	2,230	1,543	0	0	526	0	2,755	0	0	2,479	2,399	0	0	1,701	65	64	15
13	1,908	1,539	0	0	155	980	2,985	0	587	3,288	2,835	0	0	1,731	60	59	16
14	1,536	1,537	0	0	1,887	1,051	2,343	0	0	1,962	2,091	0	0	1,927	60	59	16
15	1,276	1,539	0	0	2,154	0	2,105	0	0	1,730	1,462	0	0	1,926	60	59	15
16	1,694	866	0	186	3,488	0	2,174	0	0	1,873	1,879	0	0	1,898	61	59	15
17	1,643	0	0	992	3,974	2,002	1,973	0	0	1,706	1,368	0	0	1,932	73	73	26
18	956	0	0	992	4,250	2,288	1,926	0	0	1,737	1,754	0	0	1,501	81	79	24
19	736	0	0	992	275	3,481	1,934	0	66	1,473	1,433	0	0	1,713	81	79	16
20	1,051	0	0	764	0	1,147	2,167	0	289	2,155	1,782	0	0	1,790	65	64	17
21	690	0	0	558	3,051	30	1,905	0	331	1,917	1,698	0	0	1,721	61	59	16
22	322	0	0	992	3,994	1,934	2,201	0	0	2,050	2,365	0	0	1,842	61	59	15
23	370	0	0	992	3,764	2,270	1,889	0	0	1,556	1,250	0	0	1,733	61	59	14
24	1,908	0	0	992	6,729	1,827	2,158	0	21	2,045	2,106	0	0	1,561	77	74	27
25	951	335	0	992	4,575	2,377	2,221	0	273	1,775	1,175	0	0	2,798	82	79	25
26	2,016	1,061	0	990	3,870	3,430	2,327	0	190	2,329	2,386	0	0	1,733	82	79	16
27	2,175	1,060	0	992	2,293	3,574	2,116	0	252	2,132	1,980	0	0	1,747	30	30	8
28	1,639	1,054	0	992	2,612	2,689	1,901	0	324	2,000	1,745	0	0	1,993	60	58	16
29	1,764	1,059	0	992	2,689	85	2,048	0	91	1,873	1,722	0	0	2,181	60	58	15
30	1,858	489	0	992	1,627	1,198	2,755	0	215	2,488	2,385	0	0	2,161	60	58	14
Total	42,323	29,025	0	13,410	70,690	31,714	67,663	0	3,632	61,932	53,615	0	4,122	58,423	1,950	1,786	494

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Aug 31	2575.43	166,604											
1	2575.81	167,089	485	580	1,535	0	4	1,553	0	5	0	-76	
2	2576.04	167,383	294	771	1,539	0	4	2,017	0	5	0	2	
3	2575.34	166,490	-893	0	1,539	0	4	2,441	0	5	0	10	
4	2574.48	165,396	-1,094	0	1,541	0	4	2,458	0	5	0	-176	
5	2575.31	166,451	1,055	0	1,541	0	4	484	1	5	0	0	
6	2576.49	167,959	1,508	0	1,541	0	4	68	0	5	0	36	
7	2577.35	169,063	1,104	0	1,540	0	5	387	0	5	0	-49	
8	2576.16	167,536	-1,527	0	1,538	0	5	2,084	0	5	0	-981	
9	2575.76	167,025	-511	0	1,540	0	6	2,138	0	5	0	86	
10	2574.48	165,396	-1,629	0	1,544	0	5	2,749	0	5	0	-424	
11	2573.87	164,624	-772	0	1,545	0	5	2,398	0	5	0	81	
12	2574.58	165,523	899	0	1,543	0	5	526	0	5	0	-118	
13	2576.41	167,856	2,333	980	1,539	0	6	155	1	5	0	-31	
14	2577.05	168,678	822	1,051	1,537	0	7	1,887	0	5	0	119	
15	2576.43	167,882	-796	0	1,539	0	7	2,154	0	5	0	-183	
16	2574.01	164,798	-3,084	0	866	186	6	3,488	0	5	0	-649	
17	2573.19	163,766	-1,032	2,002	0	992	6	3,974	0	5	0	-53	
18	2572.25	162,584	-1,182	2,288	0	992	6	4,250	0	5	0	-213	
19	2575.73	166,987	4,403	3,481	0	992	6	275	0	5	0	204	
20	2577.18	168,845	1,858	1,147	0	764	6	0	0	5	0	-54	
21	2575.11	166,197	-2,648	30	0	558	6	3,051	0	5	0	-186	
22	2574.11	164,928	-1,269	1,934	0	992	6	3,994	0	5	0	-202	
23	2573.81	164,548	-380	2,270	0	992	6	3,764	0	5	0	121	
24	2570.51	160,411	-4,137	1,827	0	992	7	6,729	1	5	0	-228	
25	2569.66	159,357	-1,054	2,377	335	992	7	4,575	0	5	0	-185	
26	2570.92	160,921	1,564	3,430	1,061	990	7	3,870	0	5	0	-49	
27	2573.52	164,182	3,261	3,574	1,060	992	7	2,293	0	5	0	-74	
28	2574.78	165,777	1,595	2,689	1,054	992	7	2,612	0	5	0	-530	
29	2574.20	165,042	-735	85	1,059	992	8	2,689	0	5	0	-185	
30	2574.90	165,930	888	1,198	489	992	8	1,627	0	4	0	-168	
Total				-674	31,714	29,025	13,410	174	70,690	3	149	0	-4,155

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Aug 31	1516.66	21,839								
1	1513.16	20,421	-1,418	1,553	0	580	0	2,391	0	
2	1509.17	18,866	-1,555	2,017	0	771	0	2,800	-1	
3	1509.17	18,866	0	2,441	0	0	0	2,441	0	
4	1507.77	18,336	-530	2,458	0	0	0	2,990	2	
5	1509.01	18,805	469	484	0	0	0	0	-15	
6	1509.08	18,832	27	68	0	0	0	0	-41	
7	1510.17	19,250	418	387	0	0	0	0	31	
8	1511.37	19,715	465	2,084	0	0	0	2,568	949	
9	1510.64	19,431	-284	2,138	0	0	0	2,394	-28	
10	1512.60	20,199	768	2,749	0	0	0	2,018	37	
11	1510.93	19,544	-655	2,398	0	0	0	3,020	-33	
12	1512.25	20,060	516	526	0	0	0	0	-10	
13	1510.16	19,246	-814	155	0	980	0	0	11	
14	1508.09	18,457	-789	1,887	0	1,051	0	1,625	0	
15	1507.45	18,216	-241	2,154	0	0	0	2,393	-2	
16	1513.71	20,640	2,424	3,488	0	0	0	1,065	1	
17	1511.26	19,672	-968	3,974	0	2,002	0	2,935	-5	
18	1516.17	21,638	1,966	4,250	0	2,288	0	0	4	
19	1507.97	18,411	-3,227	275	0	3,481	0	0	-21	
20	1502.31	16,340	-2,071	0	0	1,147	0	894	-30	
21	1510.27	19,288	2,948	3,051	0	30	0	0	-73	
22	1515.49	21,360	2,072	3,994	0	1,934	0	0	12	
23	1514.63	21,010	-350	3,764	0	2,270	0	1,892	48	
24	1521.52	23,892	2,882	6,729	0	1,827	0	2,001	-19	
25	1519.25	22,922	-970	4,575	0	2,377	0	3,219	51	
26	1515.59	21,400	-1,522	3,870	0	3,430	0	1,869	-93	
27	1512.59	20,195	-1,205	2,293	0	3,574	0	0	76	
28	1512.18	20,033	-162	2,612	0	2,689	0	0	-85	
29	1514.21	20,841	808	2,689	0	85	0	1,933	137	
30	1506.61	17,903	-2,938	1,627	0	1,198	0	3,213	-154	
Total			-3,936	70,690	0	31,714	0	43,661	749	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries		
				Natural	Project				
Aug 31	1460.46	214,626							
1	1460.69	215,036	410	0	2,391	0	2,128	0	
2	1460.98	215,553	517	0	2,800	0	2,200	0	
3	1460.97	215,524	-29	0	2,441	0	2,272	0	
4	1461.46	216,412	888	0	2,990	0	2,246	0	
5	1460.26	214,269	-2,143	0	0	0	2,231	0	
6	1459.10	212,209	-2,060	0	0	0	2,034	0	
7	1457.98	210,230	-1,979	0	0	0	1,945	0	
8	1458.21	210,636	406	0	2,568	0	2,085	0	
9	1458.66	211,430	794	0	2,394	0	1,997	0	
10	1458.74	211,572	142	0	2,018	0	1,858	0	
11	1459.70	213,274	1,702	0	3,020	0	1,896	0	
12	1458.14	210,512	-2,762	0	0	0	2,002	0	
13	1457.09	208,664	-1,848	0	0	0	1,825	0	
14	1457.01	208,524	-140	0	1,625	0	1,703	0	
15	1457.38	209,174	650	0	2,393	0	1,744	9	
16	1457.37	209,156	-18	0	1,065	0	1,781	9	
17	1457.74	209,807	651	0	2,935	0	1,850	10	
18	1456.66	207,910	-1,897	0	0	0	1,850	10	
19	1455.62	206,091	-1,819	0	0	0	1,822	10	
20	1455.18	205,325	-766	0	894	0	1,774	10	
21	1454.14	203,518	-1,807	0	0	0	1,833	10	
22	1453.06	201,652	-1,866	0	0	0	1,908	10	
23	1452.97	201,497	-155	0	1,892	0	1,912	10	
24	1453.02	201,583	86	0	2,001	0	2,011	10	
25	1453.69	202,740	1,157	0	3,219	0	2,005	10	
26	1453.58	202,549	-191	0	1,869	0	2,000	10	
27	1452.42	200,550	-1,999	0	0	0	1,967	10	
28	1451.26	198,562	-1,988	0	0	0	2,012	10	
29	1451.18	198,423	-139	0	1,933	0	2,008	10	
30	1451.89	199,640	1,217	0	3,213	0	1,984	10	
Total				-14,986	0	43,661	0	58,883	
							158	394	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	General Conveyance	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		42,323							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(13,410 AF of flow through Gorman Creek Imp. Channel)		29,025						
29H	W3	Pyramid Lake		USFS		3	3					
				Pyramid Recreation (T300)	3							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	Piru Fish (T300)		70,690						
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		22	22					
				Castaic Lake Recreation (T301)	22							
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.6	MWDSC 78" & 132" (T302)	54,006		8,218	3/ 29,427	5/ 1,100	4/ 16,361	6/ 11	
				Castaic Lake WA 18", 24" & 54" (T303)	2,179							
				Castaic Lake WA Rio Vista T.P. (T304)	2,522							
				MWD-Ventura Co. WPD (T302)	154							
				Releases to Lagoon	158							
				Reach 30 Subtotal:	58,883		11,962	22	29,427	1,100	0	16,372
W6		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.9		180							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 1,732 AF of Kern-Delta Water Bank Recovery, 5,835 AF of Semitropic recovery, 13,292 AF of Semitropic Recovery exchange, and 8,568 AF of Arvin Edison recovery.

4/ Includes 7,957 AF of Drought Water Bank, 730 AF of Dry Purchase 2, 944 AF of Dry Purchase 3, and 6,730 AF of Dry Purchase 4.

5/ Conveyance of non-project water Article 55 from Kern County WA to Castaic Lake WA.

6/ Dry Purchase 3.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River		
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel				
Aug 31	3350.39	70,544											
1	3350.92	71,045	501	0	2,704	0	5	0	2,375	0	1	178	
2	3351.18	71,292	247	1,052	1,418	0	7	0	2,118	0	0	-98	
3	3350.61	70,752	-540	1,641	0	0	7	0	2,200	0	1	27	
4	3350.36	70,516	-236	1,855	0	0	5	1	2,064	0	0	-21	
5	3350.36	70,516	0	1,928	0	0	6	0	1,941	0	0	19	
6	3351.32	71,425	909	3,003	0	0	7	0	2,059	0	0	-28	
7	3351.29	71,397	-28	1,943	0	0	6	0	1,967	0	0	2	
8	3350.84	70,970	-427	1,922	0	0	5	1	2,251	0	1	-91	
9	3350.67	70,809	-161	1,973	0	0	6	0	2,079	0	0	-49	
10	3350.36	70,516	-293	1,742	0	0	5	1	2,025	0	0	-4	
11	3350.25	70,412	-104	741	0	0	6	0	1,755	0	0	916	
12	3351.06	71,178	766	2,399	0	0	6	1	1,701	0	0	75	
13	3352.16	72,226	1,048	2,835	0	0	6	0	1,731	0	1	-49	
14	3352.21	72,274	48	2,091	0	0	6	0	1,927	0	0	-110	
15	3351.68	71,768	-506	1,462	0	0	6	0	1,926	0	0	-36	
16	3351.63	71,720	-48	1,879	0	0	6	1	1,898	0	0	-22	
17	3351.12	71,235	-485	1,368	0	0	6	0	1,932	0	1	86	
18	3351.32	71,425	190	1,754	0	0	6	0	1,501	0	0	-57	
19	3350.95	71,074	-351	1,433	0	0	6	0	1,713	0	0	-65	
20	3350.84	70,970	-104	1,782	0	0	6	1	1,790	0	0	-89	
21	3350.84	70,970	0	1,698	0	0	6	0	1,721	0	1	30	
22	3351.34	71,444	474	2,365	0	0	6	0	1,842	0	0	-43	
23	3350.87	70,998	-446	1,250	0	0	6	0	1,733	0	0	43	
24	3351.40	71,501	503	2,106	0	0	6	1	1,561	0	0	-35	
25	3349.58	69,782	-1,719	1,175	0	0	7	0	2,798	0	1	-88	
26	3350.28	70,440	658	2,386	0	0	6	0	1,733	0	0	11	
27	3350.53	70,676	236	1,980	0	0	5	1	1,747	0	0	9	
28	3350.28	70,440	-236	1,745	0	0	6	0	1,993	0	0	18	
29	3349.77	69,960	-480	1,722	0	0	7	0	2,181	0	1	-13	
30	3349.86	70,045	85	2,385	0	0	5	1	2,161	0	0	-133	
Total				-499	53,615	4,122	0	179	9	58,423	0	8	383
													120

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

September 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Aug 31	1556.15	62,097				
1	1556.43	62,583	486		20	
2	1556.29	62,340	-243		20	
3	1556.29	62,340	0		20	
4	1556.29	62,340	0		15	
5	1556.29	62,340	0		24	
6	1556.18	62,149	-191		19	
7	1556.32	62,392	243		24	
8	1556.37	62,478	86		19	
9	1556.32	62,392	-86		19	
10	1556.40	62,531	139		19	
11	1556.40	62,531	0		18	
12	1556.29	62,340	-191		18	
13	1556.29	62,340	0		18	
14	1556.29	62,340	0		35	
15	1556.35	62,444	104		28	
16	1556.32	62,392	-52		20	
17	1556.32	62,392	0		20	
18	1556.66	62,983	591		20	
19	1556.29	62,340	-643		20	
20	1556.35	62,444	104		20	
21	1556.29	62,340	-104		23	
22	1555.96	61,768	-572		20	
23	1556.15	62,097	329		20	
24	1556.21	62,201	104		20	
25	1556.18	62,149	-52		20	
26	1556.40	62,531	382		19	
27	1556.29	62,340	-191		19	
28	1556.29	62,340	0		18	
29	1556.40	62,531	191		21	
30	1556.32	62,392	-139		20	
Total		295	2,285	616	-1,374	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	General Conveyance	Article 56C	Other	
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		116,619							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
		Check No. 42	304.99									
18A	43	Alamo Powerplant	305.73	(Includes 67,663 AF generation, 0 AF plant bypass, and 3,632 AF Tehachapi Bypass)	71,295							
			306.71	AVEK 305th Street West (T287)	0							
19	44		308.05	AVEK 294th Street West (T267)	0							
		Check No. 43	309.70									
19	45		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West (T269)	0							
19	46	Check No. 44	314.81									
			314.93	AVEK 235th Street West (T270)	0							
19	46		315.57	AVEK 225th Street West (T271)	0							
		Check No. 45	319.74									
20A	47		323.19	Antelope Valley-East Kern WA Fairmont (T272)	603							
		Check No. 47	326.77									
20A	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	96							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
20A	49	Check No. 48	330.82									
		Check No. 49	335.93									
20B	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	4,723							
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	42							
20B	51	Check No. 50	340.92	AVEK WA-Temp (T387)	0							
			341.51									
20B	52	Check No. 51	342.06	AVEK WA-Temp (T386)	0							
			342.07									
20B	53		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
		Check No. 52	343.74									
21	53		346.98	Palmdale WD (T276) Temp.	1,728							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	85							
21	57	Check No. 53	348.17									
			349.52	Palmdale WD (T394)	0							
21	54	Check No. 54	350.25									
		Check No. 55	352.70									
21	56	Check No. 56	354.76									
			354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0							
22A	57		354.97	Palmdale WD (T276)	0							
			354.97	Palmdale WD (T391)	0							
22A	58	Check No. 57	356.93									
			357.60	AVEK 95th Street East (T279)	86							
22A	58		357.72	AVEK 96th Street East (T280)	19							
			359.76	AVEK East Side Treatment Plant (T281)	474							

1/ Conveyance of non-project "Nickel" water.

2/ Includes 19 AF of Dry Purchase 2 and 34 AF of Dry Purchase 3.

3/ Includes 4 AF of Dry Purchase 2, 5 AF of Dry Purchase 3, 33 AF of Dry Purchase 4, and 1,186 AF of Butte County Table A transferred to Palmdale.

Table 31. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

September 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Rec.	Recovery	General Conveyance	Article 56C	Other		
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		61,932								
	59	Check No. 59	366.09										
	60		366.50		AVEK Big Rock Siphon (T368)								
	61	Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63	Check No. 63	389.20		Mojave Water Agency White Road 24" & 42" (T282)								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10		Mojave Water Agency Morongo 24" & 42" (T284)								
23		Check No. 66	403.41										
		Mojave Siphon	405.58		Las Flores Ranch Exchange								
24	67	Mojave Siphon Powerplant	405.65										
			407.65		MWA CS DAM (T288)								
		Silverwood Lake			California State Park Silverwood (T288)								
			407.70		Creastline-Lake Arrowhead WA State Project Water (T289)								
		San Bernardino Intake Tunnel			Non-Project Water (T289)								
25	68	Devil Canyon Powerplant	412.73										
26A					MWD-Rialto (T292)								
					MWD-Rialto (T293)								
		Devil Canyon Afterbay Control Structures			Desert Water Agency Transfer (T293)								
					Coachella Valley WD Transfer (T293)								
					MWD EBX-1 (T290)								
					MWD EBX-1 (T291)								
					East Branch Extension								
					Inland Feeded (T294)								
28G	69	Santa Ana Valley Pipeline	425.46										
28H			433.06		MWD-SC Box Springs (T295)								
28J			440.05		MWD-SC Perris Bypass Pipeline (T296)								
	69	Lake Perris	442.00		MWD-SC (T297)								
			443.44		MWD-SC 54" & 78" (T299)								
					Calif. State Park								
					Lake Perris Parks & Rec. (T298)								
					MWD Total:								
					90,504	34,391	0	29,427	0	0	26,686		

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Transfer of Kern County WA's Table A to WWD.

3/ Includes 135 AF of Drought Water Bank, 9 AF of Dry Purchase 2, 15 AF of Dry Purchase 3, and 191 AF of Dry Purchase 4.

4/ Includes 36 AF of Dry Purchase 2, 50 AF of Dry Purchase 3, and 433 AF of Dry Purchase 4.

5/ Includes 2,385 AF to San Gabriel Valley MWD, 2,195 AF to San Bernardino Valley MWD, and 717 AF to San Gorgonio Pass WA.

6/ San Bernardino Valley.

7/ San Bernardino Valley: includes 383 AF of Drought Water Bank and 13 AF of Dry Purchase 3.

8/ Dry Purchase San Diego.

Table 32. Water Quality At Selected SWP Locations

September 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	40	85	67	67	65	63	61	71	62
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Bromide	mg/l	<0.01	0.03	0.33	0.32	0.33	0.32	0.34	0.31	0.23
Calcium	mg/l	9	14	15	15	15	16	17	18	18
Chloride	mg/l as C	NR	3.8	2.0	2.3	2.2	2.1	2.6	2.0	2.2
Chromium	mg/l as C	NR	4.0	2.1	2.3	2.2	2.2	2.3	2.2	2.2
Copper	mg/l	1	14	104	104	105	103	110	93	78
Fluoride	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Hardness	mg/l	<0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.002	0.002
Iron	mg/l	NR	<0.1	NR	<0.1	NR	NR	<0.1	NR	NR
Lead	mg/l as CaCO ₃	39	80	91	95	91	94	100	94	90
Magnesium	mg/l	0.005	0.008	0.007	0.020	0.006	<0.005	<0.005	<0.005	<0.005
Manganese	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nitrate + Nitrite	mg/l	4	11	13	14	13	13	14	12	11
Organic Carbon, Dissolved	mg/l	<0.005	0.017	<0.005	0.038	<0.005	<0.005	0.137	<0.005	<0.005
Organic Carbon, Total	mg/l as N	<0.01	0.13	0.16	0.06	0.09	0.11	0.10	0.52	0.15
Phosphate-Ortho	mg/l as P	<0.01	0.12	0.05	0.05	0.06	0.06	NR	0.07	0.06
Phosphorus-Total	mg/l	<0.01	0.14	0.06	0.06	0.06	0.07	0.07	0.11	0.06
Selenium	mg/l	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	4	18	58	62	61	63	70	64	56
Specific Conductance	µS/cm	87	254	550	539	545	536	532	510	441
Sulfate	mg/l	2	14	23	21	23	23	27	27	26
Total Dissolved Solids	mg/l	52	142	288	280	285	272	283	261	235
Turbidity	NTU	2	29	5	4	2	8	6	4	1
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

September 2009

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm										Cl in mg/l
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	6.17	4.20	3,475	3,444	7,077	3.83	10.48	0.91	1.08	1.48	1.38	0.47	0.55	0.50	133
2	5.87	4.02	4,223	3,367	7,177	3.56	9.71	0.84	1.02	1.38	1.38	0.49	0.53	0.50	130
3	5.84	4.07	3,624	3,284	6,825	3.71	10.35	0.85	0.95	1.40	1.38	0.50	0.46	0.48	131
4	5.77	4.16	3,603	3,223	6,793	3.75	10.75	0.88	0.92	1.43	1.39	0.52	0.45	0.49	135
5	5.68	4.14	3,839	3,211	6,927	3.84	11.04	0.96	0.91	1.46	1.40	0.52	0.46	0.48	147
6	5.54	4.03	3,712	3,227	6,840	3.59	10.30	0.70	0.88	1.38	1.40	0.52	0.50	0.48	149
7	0.00	0.00	3,260	3,208	6,474	3.41	9.78	0.65	0.86	1.35	1.40	0.53	0.56	0.46	147
8	5.96	0.00	2,931	3,189	6,181	3.64	10.15	0.82	0.86	1.42	1.41	0.52	0.53	0.44	136
9	6.12	4.27	2,238	3,147	5,653	3.95	10.74	1.07	0.88	1.49	1.43	0.52	0.49	0.43	137
10	6.08	4.21	1,190	3,050	4,980	3.91	10.49	0.99	0.90	1.52	1.44	0.53	0.49	0.43	134
11	6.40	4.34	2,183	3,003	5,290	4.23	11.15	1.39	0.95	1.67	1.46	0.55	0.47	0.46	135
12	6.74	4.75	2,022	2,951	5,106	5.14	13.28	2.24	1.04	1.85	1.50	0.55	0.38	0.47	151
13	6.59	4.75	2,177	2,940	4,783	5.03	12.98	1.90	1.09	1.78	1.51	0.55	0.37	0.48	156
14	6.27	4.33	3,296	2,970	5,402	4.50	11.43	1.46	1.12	1.60	1.52	0.52	0.42	0.53	134
15	6.11	4.11	5,891	3,083	6,365	3.98	10.38	1.26	1.14	1.47	1.52	0.52	0.42	0.55	133
16	6.15	4.11	5,273	3,176	6,205	3.91	10.58	1.32	1.18	1.44	1.52	0.52	0.43	0.55	133
17	6.03	4.09	4,963	3,249	5,912	3.83	10.08	1.27	1.21	1.43	1.52	0.53	0.52	0.55	133
18	5.84	4.12	5,164	3,329	5,724	3.90	10.01	1.32	1.24	1.42	1.52	0.53	0.58	0.56	135
19	6.05	4.34	4,679	3,391	5,450	4.17	10.88	1.52	1.28	1.50	1.52	0.55	0.53	0.56	131
20	6.11	4.23	3,002	3,391	4,604	4.16	10.60	1.55	1.34	1.47	1.53	0.55	0.56	0.55	135
21	6.17	4.31	3,108	3,372	4,481	4.19	10.49	1.51	1.40	1.46	1.54	0.57	0.56	0.54	135
22	6.16	4.21	3,034	3,369	4,335	4.20	10.33	1.54	1.45	1.44	1.54	0.58	0.55	0.52	140
23	6.18	4.29	3,367	3,365	4,273	4.27	10.29	1.65	1.49	1.44	1.54	0.58	0.55	0.52	137
24	6.16	4.40	3,403	3,354	4,188	4.23	10.28	1.75	1.55	1.47	1.53	0.57	0.54	0.53	137
25	5.85	4.37	3,046	3,375	3,941	4.00	9.35	1.28	1.54	1.44	1.52	0.53	0.53	0.55	138
26	5.66	4.22	3,038	3,398	3,939	3.87	8.63	1.27	1.47	1.35	1.48	0.55	0.56	0.56	138
27	5.83	4.27	3,032	3,409	3,801	4.02	8.77	1.44	1.44	1.32	1.45	0.56	0.67	0.56	136
28	6.02	4.57	2,808	3,401	3,549	4.84	11.21	2.13	1.48	1.45	1.44	0.57	0.66	0.55	130
29	5.79	4.38	1,927	3,357	3,040	4.84	11.09	1.96	1.53	1.44	1.43	0.55	0.58	0.53	138
30	5.65	3.88	2,724	3,341	3,614	3.63	9.00	1.20	1.53	1.19	1.42	0.54	0.59	0.54	140

Clifton Court Cl/(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

September 2009

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 17, 2009	Metolachlor	0.10
California Aqueduct At Banks Pumping Plant	June 16, 2009	Metolachlor Simazine	0.20 0.02
O'Niell Forebay Outlet Check 13	June 17, 2009	Simazine	0.02
Delta Mendota Canal At McCabe Road	June 17, 2009	Metolachlor Simazine	0.20 0.02
California Aqueduct Near Kettleman City (Check 21)	June 16, 2009	Simazine	0.02
California Aqueduct At Near Highway 119 (Check 29)	June 17, 2009	Simazine	0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 17, 2009	Simazine	0.06

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

September 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	5,024,085	0	30,497	47,342	2,286,360	1,992,360	479,619	444
2	4,587,825	11	29,446	45,055	1,895,424	1,601,424	462,108	508
3	4,243,932	0	31,653	42,129	1,924,608	1,630,608	450,086	562
4	2,691,392	11	35,707	45,810	1,978,448	1,684,448	480,857	519
5	2,011,152	0	31,076	42,374	1,982,032	1,688,032	457,897	482
6	2,306,370	0	29,477	45,091	2,296,824	2,002,824	456,594	513
7	1,990,131	0	26,038	41,781	2,124,712	1,830,712	468,282	390
8	3,787,212	11	25,477	42,414	1,976,264	1,682,264	452,900	393
9	3,217,170	0	28,675	42,707	1,952,856	1,658,856	460,696	396
10	3,370,389	0	38,456	42,547	1,946,672	1,652,672	442,927	397
11	3,193,388	0	38,369	47,351	1,641,552	1,347,552	473,529	419
12	1,290,487	11	21,405	43,802	1,634,304	1,340,304	473,826	446
13	40,348	44	21,114	43,624	1,421,072	1,127,072	448,006	425
14	713,152	748	26,350	47,870	1,409,384	1,115,384	176,813	414
15	1,779,492	0	21,762	45,093	1,288,776	1,288,776	183,632	384
16	2,946,339	0	16,695	34,931	1,674,232	1,674,232	191,027	398
17	2,747,877	0	25,244	47,146	1,548,632	1,548,632	179,699	430
18	3,382,357	0	27,366	43,719	925,200	925,200	356,505	428
19	555,588	0	32,214	47,454	1,451,704	1,451,704	381,078	496
20	40,579	0	28,427	41,607	1,575,320	1,281,320	397,378	446
21	3,781,294	0	21,086	24,317	1,111,168	817,168	427,937	419
22	2,196,733	0	16,707	22,396	1,096,176	802,176	387,310	393
23	2,278,903	0	20,942	25,335	644,656	350,656	416,229	398
24	4,080,076	0	21,288	21,676	645,112	351,112	441,982	409
25	3,219,920	0	34,908	36,155	591,656	297,656	443,500	413
26	1,760,836	0	29,072	38,167	570,696	276,696	431,896	418
27	1,957,142	0	27,038	39,625	329,848	35,848	404,695	444
28	1,909,512	0	25,382	40,889	640,896	346,896	431,523	434
29	21,901	0	25,959	38,540	607,376	313,376	441,791	378
30	2,618,880	22	30,887	44,263	714,136	420,136	413,034	355
Total	73,744,462	858	818,717	1,211,210	41,886,096	34,536,096	12,113,356	12,951

Table 36. San Luis Field Division Energy Data

(in kWh)

September 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,044,647	1,044,647	0	0	906,455	330,455
2	1,156,491	1,156,491	0	0	611,006	35,006
3	846,967	846,967	0	0	610,302	34,302
4	949,571	949,571	0	0	609,708	33,708
5	812,088	812,088	0	0	609,092	33,092
6	1,198,723	1,198,723	0	0	1,192,983	40,983
7	817,974	817,974	0	0	606,463	30,463
8	808,326	808,326	0	0	606,650	30,650
9	742,833	742,833	0	0	607,112	31,112
10	896,133	896,133	0	0	215,963	23,963
11	908,261	908,261	1,419	1,419	19,877	19,877
12	1,056,528	1,056,528	0	0	603,339	27,339
13	1,005,140	1,005,140	0	0	603,680	27,680
14	724,207	724,207	0	0	18,480	18,480
15	766,613	766,613	0	0	19,800	19,800
16	779,439	779,439	0	0	19,811	19,811
17	821,735	821,735	0	0	602,404	26,404
18	764,131	764,131	0	0	602,316	26,316
19	700,553	700,553	0	0	586,476	10,476
20	596,531	596,531	0	0	603,636	27,636
21	631,742	631,742	0	0	607,761	31,761
22	591,013	591,013	0	0	600,512	24,512
23	694,769	694,769	0	0	598,730	22,730
24	928,119	928,119	310,585	310,585	12,353	12,353
25	804,975	668,975	724,955	724,955	7,953	7,953
26	967,191	831,191	712,041	712,041	8,096	8,096
27	960,091	816,091	538,010	538,010	10,659	10,659
28	695,701	559,701	296,549	296,549	14,905	14,905
29	780,313	644,313	295,295	295,295	14,905	14,905
30	898,508	762,508	341,924	341,924	14,124	14,124
Total	25,349,313	24,525,313	3,220,778	3,220,778	12,145,551	1,009,551

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

September 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	31,209	79,953	45,895	41,340	45,145	1,108,622	1,117,430	2,417,855	8,755,101
2	35,034	88,469	53,406	50,012	53,949	982,503	1,088,942	2,377,122	8,766,414
3	44,908	110,822	45,674	40,558	44,989	1,049,316	1,132,158	2,439,679	8,710,794
4	33,213	83,914	62,623	60,246	61,492	947,067	962,342	2,090,495	7,636,761
5	36,599	91,556	49,483	46,318	49,725	942,178	1,028,902	2,257,189	8,153,298
6	33,560	85,080	51,163	46,610	51,301	1,343,920	1,587,717	3,572,371	13,182,129
7	30,153	73,366	47,505	44,660	47,750	1,016,861	1,105,753	2,432,947	8,918,910
8	25,996	63,025	48,048	44,703	48,377	897,921	966,358	2,136,805	7,848,819
9	35,385	86,711	65,545	60,105	63,348	944,357	1,024,766	2,207,381	8,155,674
10	28,515	73,459	44,674	41,139	44,857	914,220	946,531	2,098,217	7,393,086
11	30,593	75,117	62,643	58,591	62,699	977,618	1,094,379	2,400,431	8,879,706
12	32,718	83,275	54,393	50,183	54,259	1,298,769	1,434,703	3,183,752	11,736,306
13	26,153	68,578	53,723	49,989	54,422	1,293,023	1,500,857	3,350,798	12,425,373
14	15,288	38,979	22,584	18,883	22,788	966,817	1,096,476	2,432,969	8,861,184
15	22,903	57,130	56,173	54,625	55,097	890,097	929,327	2,045,802	7,517,043
16	29,091	73,727	37,009	33,201	36,828	1,015,284	1,045,983	2,303,774	8,466,741
17	29,915	73,796	52,098	48,802	52,334	907,946	1,011,419	2,242,251	8,099,676
18	27,144	65,119	51,021	46,717	49,877	765,624	843,281	1,832,787	6,753,780
19	40,044	98,647	61,119	56,855	61,277	759,361	854,396	1,914,330	6,849,198
20	32,879	86,975	44,676	41,990	44,587	864,687	986,615	2,200,517	8,092,035
21	23,004	58,035	23,876	21,328	24,917	731,362	811,108	1,791,867	6,601,689
22	27,297	69,295	48,971	46,640	47,831	697,581	731,928	1,603,855	5,714,415
23	25,933	63,407	46,596	42,766	47,234	632,303	663,198	1,451,549	5,187,267
24	28,290	67,310	55,546	51,584	54,153	1,137,564	1,208,810	2,682,460	9,780,318
25	25,949	64,863	59,399	55,555	59,189	934,168	1,033,001	2,256,980	8,061,552
26	23,971	61,310	53,343	49,098	52,810	1,194,082	1,290,141	2,876,170	10,711,143
27	29,014	73,526	67,622	62,006	67,108	1,030,975	1,211,931	2,692,954	10,052,964
28	19,924	48,386	42,788	40,075	42,338	936,966	1,155,309	2,541,176	9,352,395
29	24,416	61,010	54,991	51,151	54,822	1,065,382	1,142,210	2,499,321	9,167,283
30	28,898	74,246	59,653	55,852	59,768	1,118,928	1,257,455	2,751,562	10,372,266
Total	877,996	2,199,086	1,522,240	1,411,582	1,515,271	29,365,502	32,263,426	71,085,366	260,203,320

Table 38. Southern Field Division Energy Data

(in kWh)

September 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	322,631	948,007	0	308,298	1,696,234	2,945,135	0	67,137	66,689	4,334
2	309,686	948,655	1,512,000	282,656	1,453,773	2,629,475	77,601	65,756	60,641	3,607
3	474,346	948,323	1,512,000	256,001	1,399,921	2,692,622	120,354	63,961	49,505	1,095
4	238,610	948,079	1,512,000	234,843	1,137,628	2,529,140	136,566	58,558	49,478	860
5	331,708	947,277	1,512,000	219,003	1,501,251	2,406,307	149,074	49,723	49,461	666
6	672,757	948,268	1,512,000	341,093	1,995,697	2,550,012	226,894	59,414	62,205	774
7	392,313	949,313	1,512,000	259,563	1,364,603	2,439,932	150,965	61,809	66,319	936
8	351,965	947,433	1,512,000	226,753	1,307,334	2,781,242	150,137	61,748	66,446	4,168
9	363,283	948,151	1,512,000	263,747	1,400,021	2,580,305	154,111	61,073	66,541	3,450
10	312,715	948,726	1,512,000	228,466	1,222,906	2,485,974	139,964	50,085	54,185	1,032
11	365,260	947,120	1,512,000	274,696	1,232,817	2,152,246	139,152	44,809	49,479	1,026
12	591,338	947,533	1,512,000	311,658	1,656,283	2,090,741	173,993	48,639	53,672	866
13	503,419	947,664	1,512,000	341,363	2,203,962	2,140,068	222,242	60,533	66,367	846
14	406,634	948,295	1,512,000	271,047	1,314,684	2,362,460	163,525	58,947	66,313	810
15	338,996	948,094	1,512,000	243,840	1,163,414	2,400,290	108,674	48,097	53,547	4,045
16	449,731	526,324	1,512,000	251,827	1,263,668	2,349,904	138,288	45,764	49,304	3,567
17	436,286	0	1,512,000	224,139	1,145,082	2,386,257	106,383	57,076	62,126	976
18	255,296	0	696,000	213,507	1,173,409	1,839,465	134,915	62,091	66,565	1,006
19	197,585	0	696,000	215,426	993,955	2,107,830	101,772	58,565	62,110	843
20	280,559	0	696,000	241,974	1,451,132	2,205,805	134,073	47,477	49,342	855
21	185,368	0	960,000	212,023	1,294,675	2,117,938	129,824	49,095	48,881	942
22	89,824	0	960,000	252,573	1,378,103	2,263,908	183,736	56,204	55,674	4,183
23	103,057	0	960,000	215,924	1,051,419	2,140,993	87,938	68,068	66,685	3,650
24	502,501	0	2,544,000	239,216	1,376,310	1,936,523	162,723	67,190	66,473	987
25	253,695	208,831	1,944,000	253,456	1,196,485	3,328,448	85,177	67,887	66,487	969
26	529,787	663,010	1,944,000	265,615	1,562,701	2,138,690	190,597	64,929	63,375	983
27	572,438	662,924	1,944,000	238,516	1,434,685	2,154,568	145,423	51,922	49,487	1,003
28	433,914	659,265	1,992,000	218,814	1,350,308	2,453,960	133,462	51,391	49,343	985
29	481,121	661,419	1,872,000	238,442	1,261,586	2,685,464	130,603	62,738	62,022	3,617
30	490,185	306,477	1,872,000	316,512	1,678,603	2,676,281	187,240	61,694	66,315	3,116
Total	11,237,008	17,909,188	43,272,000	7,660,991	41,662,649	71,971,983	4,165,406	1,732,380	1,765,037	56,197

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.